

Document 00911CSP

NOTICE OF  
ADDENDUM NO. 1

Date of Addendum: 11/26/14

PROJECT NAME: 84-inch Water Line Interconnection at East Water Purification Plant (EWPP)

PROJECT NO: S-000902-0132-4


BID DATE: December 18, 2014 (There is a change to the Proposal Date.)

FROM: J. Timothy Lincoln, P.E., City Engineer  
City of Houston  
Department of Public Works and Engineering  
611 Walker, 15<sup>th</sup> Floor  
Houston, Texas 77002  
Attn: Arthur Morris, P.E., Project Manager

TO: Prospective Proposer's

The referenced Addendum forms a part of the Request For Proposal Documents and will be incorporated into the Contract documents, as applicable.

Written questions regarding this Addendum may be submitted to the Project Manager following the procedures specified in Document 00200CSP – Instructions to Proposer's. Immediately notify the City Engineer through the named Project Manager upon finding discrepancies or omissions in the Request For Proposal Documents.

  
Ravi Kaleyatodi, P.E., CPM  
Senior Assistant Director  
Department of Public Works and  
Engineering

END OF DOCUMENT

Document 00910

ADDENDUM NO. 1

Date of Addendum: 11/26/14

PROJECT NAME: 84-inch Water Line Interconnection at East Water Purification Plant (EWPP)

PROJECT NO: WBS No. S-000902-0132-4

BID DATE: December 18, 2014

FROM: J. Timothy Lincoln, P.E., City Engineer  
City of Houston, Department of Public Works and Engineering  
611 Walker  
Houston, Texas 77002

Attn: Arthur Morris, P.E., Project Manager

TO: Prospective Proposers

This Addendum forms a part of the Proposal Documents and will be incorporated into the Contract documents, as applicable. Insofar as the original Project Manual and Drawings are inconsistent, this Addendum governs.

#### CHANGE IN PROPOSAL DATE

The Proposal Date for this Project has been changed from December 4, 2014 to December 18, 2014.

*This Addendum uses the change page method: remove and replace or add pages, or Drawing sheets, as directed in the change instructions below. Change bars ( | ) are provided in the outside margins of pages from the Project Manual to indicate where changes have been made; no change bars are provided in added Sections. Reissued Drawing Sheets show the Addendum number below the title block and changes in the Drawing are noted by a revision mark and enclosed in a revision cloud.*

## CHANGES TO PROJECT MANUAL

### PROPOSAL REQUIREMENTS

1. Document 00010-CSP – Table of Contents. Replace entire document.
2. Document 00202-CSP – Proposal Organization and Selection Criteria. Replace Paragraph 3.0 B.1 with the following:

1. A list of completed and in-service water line projects within the last ten (10) years that includes the following minimum components:
  - a. A combined total of at least 4,000 LF of 60-inch steel pipe or larger.
  - b. A combined total of at least 2,000 LF of 60-inch pipe, or larger, in tunnel utilizing a TBM (tunnel boring machine) with closed face capabilities.
  - c. At least one (1) project on a major water or wastewater treatment or pumping facility.

List provided shall consist of a minimum of five (5) projects of which three (3) projects must be from the Houston region. At least three (3) of the listed projects shall have been completed by the Proposer submitting the Proposal. To qualify, the Proposer company experience, subcontractors or key personnel experience (management, field supervisors and employees who will be assigned for the duration of the project) will be considered in meeting the minimum project experience components noted above. To qualify for meeting the minimum quantities for the components noted in a. and b. above, the quantities will be cumulative across the listed projects.

3. Document 00210-CSP – Information for Proposers. Replace Paragraph 10.0 A.1 with the following:
  1. City Secretary will receive Proposals at 900 Bagby, Room P101, Houston, Texas until 10:30 am, local time on December 18, 2014.
4. Document 00220-CSP – Request for Proposal Information. Replace entire document.

5. Document 00410-CSP – Proposal Form, Part A & B. Replace entire document.

#### SPECIFICATIONS

6. Section 01110 – Summary of Work. Replace Paragraph 1.09 COORDINATION OF WORK.
7. Section 01506 – Diversion Pumping. Add attached Section 01506.

#### CLARIFICATIONS

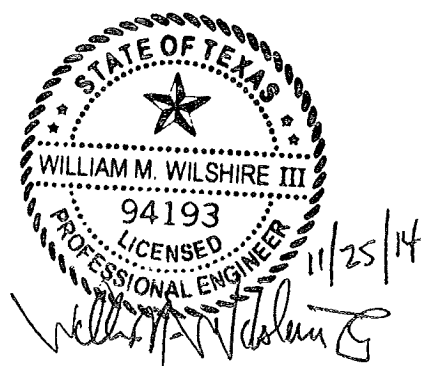
8. For the proposed tunnel crossings, the "PERMALOK" steel casing pipe with integral machined press-fit connectors is acceptable for tunnel casing pipe provided the proposed thickness and casing pipe I.D. complies with the specifications and applicable requirements indicated on the drawings.
9. Steel pipe, fittings, and dished head test plugs shall be hydrostatically tested at the factory, prior to delivery to project site, to ensure these piping components are capable of withstanding the field test pressure. For dished head test plugs, both sides of the plug shall be tested for compliance with field hydrostatic test pressure for piping. Written certification for compliance with factory hydrostatic testing is typically required for pipe, fittings and test plugs.
10. Shop applied coating and linings for steel pipe are to be tested in accordance with Paragraph 2.01 E of Section 02518 – Steel Pipe and Fittings for Large Diameter Water Lines. Refer to Paragraphs 2.02 B.5, 2.03 C, 2.09, and 3.03 B for test requirements and frequencies.
11. For sequencing of work, piping work shall begin at southern end of project at STA 13+25.
12. It is mandatory that a tunnel boring machine with closed face capabilities be used for constructing the tunnel crossing of Hunting Bayou.
13. The use of gaskets for tunnel liner plate installation is not mandatory; however, Paragraph 2.04 I of Section 02425(LD) - Tunnel Excavation and Primary Liner for Water Mains indicates gaskets are to be used for controlling seepage when required.
14. The tunnel crossings (Hunting Bayou crossing and the petroleum pipelines crossing) may be constructed with 2 flange or 4 flange liner plate or steel casing pipe as indicated in the details on the drawings on Drawing Sheet 36.

15. For Item 2 noted above for this Addendum No. 1, both company and subcontractor experience and key personnel experience will be considered in meeting the project component experience. Refer to Paragraph 3.0 B.7 in Document 00202 – Proposal Evaluation and Selection Criteria. At least three (3) of the listed projects shall have been completed by the Proposer. No more than two (2) projects may be listed for highlighting experience of key personnel, including management, field supervisors and employees. Proposer is encouraged to identify what Work will be performed by identified subcontractor(s) that matches experience used to qualify Proposer.

END OF ADDENDUM NO. 1

DATED: Ravi Kaleyatodi  
Ravi Kaleyatodi, P.E., CPM  
Senior Assistant Director  
Department of Public Works and  
Engineering

END OF DOCUMENT



Document 00010-CSP

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NOTE: Bold capitalized Specification Sections are included in the City of Houston Department of Public Works and Engineering Standard Construction Specifications for Wastewater Collection Systems, Water Lines, Storm Drainage, Street Paving, and Traffic located here: [http://documents.publicworks.houstontx.gov/document-center/cat\\_view/88-engineering-and-construction/92-specifications/208-division-02-16-standard-specifications.html](http://documents.publicworks.houstontx.gov/document-center/cat_view/88-engineering-and-construction/92-specifications/208-division-02-16-standard-specifications.html); and are incorporated in Project Manuals by reference as if copied verbatim. Documents listed "for filing" are to be provided by Proposer and are not included in this Project Manual unless indicated for example only. The Document numbers and titles hold places for actual documents to be submitted by Contractor during Proposal, Post-Proposal, or Construction phase of the Project. Specification Sections marked with an asterisk (\*) are amended by a supplemental specification, printed on blue paper and placed in front of the Specification it amends. Documents in the 200, 300 and 400 series of Division 00, except for Document 00410B – Proposal Form, Part B, are not part of the Contract.

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END OF DOCUMENT

84-inch Water Line Interconnection at EWPP  
WBS No. S-000902-0132-4

**REQUEST FOR  
PROPOSAL INFORMATION**

Document 00220-CSP

**REQUEST FOR PROPOSAL INFORMATION**

PROJECT: 84-inch Water Line Interconnection at East Water Purification Plant EWPP)

PROJECT No.: WBS No. S-000902-0132-4

TO: Arthur Morris, P.E.  
15th Floor  
611 Walker, Houston, Texas 77002

Phone No. (832) 395-2317  
Fax No. (832) 395-2333  
Email Addr. arthur.morris@houston.tx.gov

(Type or Print question legibly; use back if more space is needed)

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This request relates to \_\_\_\_\_ and/or \_\_\_\_\_  
Drawing / Detail No. Specification Section No.

Attachments to this request: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Signature \_\_\_\_\_

Date \_\_\_\_\_

(Type or Print Name)

(Type or Print Company Name)

**END OF DOCUMENT**

00220-CSP-1  
11-26-2014  
ADDENDUM NO. 1

Document 00410A-CSP

PROPOSAL FORM – PART A

To: **The Honorable Mayor and City Council of the City of Houston**  
**City Hall Annex**  
**900 Bagby Street**  
**Houston, Texas 77002**

Project: 84-inch Water Line Interconnection at East Water Purification Plant (EWPP)

Project No.: WBS No. S-000902-0132-4

Proposer: \_\_\_\_\_

(Print or type full name of proprietorship, partnership, corporation, or joint venture.)

**1.0 OFFER**

- A. Total Proposal Price:** Having examined the Project location and all matters referred to in Proposal Documents for the Project, we, the undersigned, offer to enter into a Contract to perform the Work for the Total Proposal Price shown on the signature page of this Document
- B. Security Deposit:** Included with the Proposal is a Security Deposit in the amount of 10 percent of the Total Proposal Price subject to terms described in Document 00200 – Instructions to Bidders.
- C. Period for Proposal Acceptance:** This offer is open to acceptance and is irrevocable for 90 days from Proposal Date. That period may be extended by mutual written agreement of the City and Proposer.
- D. Addenda:** All Addenda have been received. Modifications to Proposal Documents have been considered and all related costs are included in the Total Proposal Price.
- E. Proposal Supplements:** The following documents are attached:
  - ☒ Security Deposit (as defined in Document 00200-CSP – Instructions to Proposers)
  - ☒ Document 00450-CSP - Proposer's Statement of MWBE/PDBE/DBE/SBE Status
  - ☒ Document 00452 - Contractor's Submission List - Fair Campaign Ordinance Form A
  - ☒ Document 00453-CSP – Proposer's Statement of Residency (not required for AIP funded project)
  - ☒ Document 00454 - Affidavit of Non-interest
  - ☒ Document 00455 - Affidavit of Ownership or Control
  - ☐ Document 00456 - Proposer's Certificate of Compliance with Buy American Program (required for AIP funded project)
  - ☒ Document 00457 – Conflicts of Interest Questionnaire (CIQ)
  - ☐ Document 00458 - Proposer's Certificate Regarding Foreign Trade Restriction (required for AIP funded project)
  - ☐ Document 00459 - Contractor's Statement Regarding Previous Contracts Subject to EEO (required for AIP funded project)
  - ☒ Document 00460 – Pay or Play Acknowledgement Form (POP-1)

00410-A1-CSP

11-26-2014

ADDENDUM NO. 1

- ☒ Document 00470-CSP – Proposer's MWSBE Participation Plan.
- ☒ Document 00471-CSP – Pre-Proposal Good Faith Efforts (*required if the goal in Proposer's MWSBE Participation Plan–Document 00470 is lower than the Goal*).
- ☒ Document 00472-CSP – Proposer's MWSBE Goal Deviation Request (*required if the goal in Proposer's MWSBE Participation Plan–Document 00470 is lower than the Goal*).
- ☒ Others as listed: Valid Official letter from OBO with your designation as a City or Local Business (Proposer's Participation Hire Houston First)

## 2.0 CONTRACT TIME

- A. If offer is accepted, Contractor shall achieve Date of Substantial Completion within 390 days after Date of Commencement of the Work, subject to adjustments of Contract Time as provided in the Contract.

Document 00410B-CSP

PROPOSAL FORM – PART B

**1.0 TOTAL PROPOSAL PRICE HAS BEEN CALCULATED BY PROPOSER, USING THE FOLLOWING COMPONENT PRICES AND PROCESS (PRINT OR TYPE NUMERICAL AMOUNTS):**

**A. STIPULATED PRICE:**

\$N/A

(Total Proposal Price; minus Base Unit Prices, Extra Unit Prices, Cash Allowances and All Alternates, if any)

**B. BASE UNIT PRICE TABLE:**

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in figures
<b>GENERAL</b>						
1	01502	Mobilization	LS	1	\$200,000.00 <sup>(1)</sup>	\$200,000.00 <sup>(1)</sup>
2	01555	Traffic Control and Regulation	LS	1	\$10,000.00 <sup>(2)</sup>	\$10,000.00 <sup>(2)</sup>
3	01555	Flagmen	LS	1	\$5,000.00 <sup>(2)</sup>	\$ 5,000.00 <sup>(2)</sup>
4	01555	Install Low Profile Concrete Traffic Barriers	LF	1,070		
5	01555	Remove Low Profile Concrete Barriers	LF	1,070		
6	01570	Filter Fabric Fence	LF	7,068		
7	01570	Reinforced Filter Fabric Barrier	LF	220		
8	01570	Storm-Water-Pollution-Prevention Structures	LS	1		
9	01570	Inlet Protection Barrier	LF	192		
10	01570	Inlet Protection Barrier (gravel bags)	LF	32		
11	01575	Stabilized Construction Exit	EA	1		
12	01578	Ground Water Control for Open-Cut Construction	LF	3,882	\$25.00 <sup>(2)</sup>	\$ 97,050.00 <sup>(2)</sup>
13	02233	Clearing and Grubbing	AC	1		

84-inch Water Line Interconnection at EWPP  
WBS NO. S-000902-0132-4

PROPOSAL FORM  
PART B

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in figures
14	02260	Trench Safety System for Trench Excavation	LF	3,882		
15	01270	Re-grade Drainage Ditches/Swales	LF	140		
16	01270	Remove and Store Wire Wall Security Fence	LF	242		
17	01270	Re-install Wire Wall Security Fence	LF	242		
18	01270	Remove and Dispose Chain Link Fence	LF	150		
19	01270	Chain Link Fence	LF	150		
20	02921	Hydromulch Seeding	AC	6		
21	02922	Sodding	SY	235		
22	01270	Remove and Replace Concrete Loop Detector/Sensor Box	LF	56		
23	01270	Remove Abandoned Security System Pole	EA	3		
24	01270	Brace and Support Electrical Box	EA	6		
25	01270	Remove and Replace Elec./Communication Conduit and Pull Box between STA 44+97 and STA 45+86, Complete in place	LS	1		
26	01270	Remove and Replace Elec./Communication Conduit and Pull Box between STA 52+42 and STA 53+48, Complete in place	LS	1		
WATER						
27	01270	Temporary Support Existing 4-inch to 24-inch Pipeline during Construction	EA	7		
28	01270	Temporary Support Existing 30-inch to 60-inch Pipeline during Construction	EA	3		

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11-26-2014  
ADDENDUM NO. 1

Proposer's Initials [     ]

84-inch Water Line Interconnection at EWPP  
WBS NO. S-000902-0132-4

PROPOSAL FORM  
PART B

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in figures
29	01270	Temporary Support Existing Elec./Communication Duct Bank During Construction	EA	2		
30	02082	Water Line Access Manhole	EA	2		
30A	02511	Drainline Connection with Service Manhole	EA	1		
31	01270	Water Line Extra Depth Access Manhole	EA	1		
32	02082	Extra Depth Manhole	VF	21		
33	01270	Remove and Dispose of Existing 84-inch Discharge Pipe	LF	11		
34	02221	Remove and Dispose of Existing Inlets	EA	1		
35	02511	84-inch Diameter Steel Water Line by Open-Cut	LF	3,798		
36	01270	Connection to 84-Inch Header and Modifications to 84-inch Diameter Discharge Pipe	LS	1		
37	01270	Removal of Existing 84-inch Diameter Header Plug	EA	1		
38	02517	84-inch diameter steel water line in tunnel	LF	85		
39	01270	84-inch diameter steel water line in tunnel between STA 31+80.00 to STA 34+65.00	LF	285		
40	01270	30-inch Access Inlet w/ Blind Flange and Gate Valve	EA	3		
41	02522	84-Inch Diameter Butterfly Valve	EA	3		
42	02524	4-inch Diameter Combination Air Valve Assembly	EA	4		
43	01270	Dual 6-inch Diameter Combination Air Valve Assembly, with Manhole	EA	1		

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in figures
44	01270	Dual 6-inch Diameter Combination Air Valve Assembly above Grade	EA	1		
45	01270	Reinforced Concrete Thrust Collar (includes thrust rings)	LS	1		
46	16640	Cathodic Protection System	LS	1		
STORM						
Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in figures
47	02221	Remove/Dispose Storm Pipe 12-inch Dia	LF	14		
48	02221	Remove/Dispose Storm Pipe 24-inch Dia	LF	48		
49	02221	Remove/Dispose Inlets all sizes/depths	EA	3		
50	01270	12-inch Diameter RCP Storm Sewer by Open Cut	LF	14		
51	01270	24-inch Diameter RCP Storm Sewer by Open Cut	LF	48		
52	01270	12-inch Diameter Storm Sewer Concrete Collar	EA	1		
53	01270	24-inch Diameter Storm Sewer Concrete Collar	EA	4		
54	02633	Type A Grate Inlet	EA	2		
55	02633	Type BB Inlet	EA	1		
WASTEWATER						
56	02221	Remove and Dispose 4-inch diameter sanitary sewer force main	LF	150		
57	02221	Remove and Dispose 18 inch Sewer Line	LF	70		

84-inch Water Line Interconnection at EWPP  
WBS NO. S-000902-0132-4

PROPOSAL FORM  
PART B

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in figures
58	02532	4-inch Diameter Sanitary Force Main, by open-cut	LF	150		
59	02531	18-inch Diameter Sanitary Sewer, by open-cut	LF	62		
PAVING						
60	02221	Removing and Disposing of Concrete Pavements (including all thicknesses, w/ or w/o asphalt, including base & subgrade, w/ or w/o curb, all depths)	SY	2,475		
61	02221	Remove and Dispose Concrete Curb	LF	70		
61A	02771	6" Concrete Curb	LF	70		
62	02336	Lime Stabilized Subgrade, 8-inch thick	SY	2,723		
63	02336	Lime for Lime Stabilized Subgrade (DRY WEIGHT)	TON	72		
64	02741	Temporary Asphalt Concrete Pavement for Detour/Roadway and Shoulder	SY	245		
65	02751	Reinforced Concrete Pavement 8-inch thick	SY	2,475		
66	02752	Street Pavement Expansion Joint with Load Transfer	LF	140		
67	02752	Horizontal Dowel, 24-inch	EA	1,000		

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**C. EXTRA UNIT PRICE TABLE:**

Item No.	Spec Ref.	Extra Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in figures
68	01270	Demobilization/Remobilization	EA	1	\$10,000.00 <sup>(2)</sup>	\$10,000.00 <sup>(2)</sup>
69	02317	6" Over excavate Trench Bottom	LF	2,875	\$15.00 <sup>(2)</sup>	\$43,125.00 <sup>(2)</sup>
70	02318	Excavation Around Obstructions	CY	400	\$15.00 <sup>(2)</sup>	\$6,000.00 <sup>(2)</sup>
71	02318	Extra Hand Excavation	CY	300	\$20.00 <sup>(2)</sup>	\$6,000.00 <sup>(2)</sup>
72	02318	Extra Machine Excavation	CY	100	\$15.00 <sup>(2)</sup>	\$1,500.00 <sup>(2)</sup>
73	02318	Extra Placement of Backfill Material	CY	600	\$15.00 <sup>(2)</sup>	\$9,000.00 <sup>(2)</sup>
74	01270	Extra 84-inch Diameter Steel Closure Piece	EA	2	\$2,000.00 <sup>(2)</sup>	\$4,000.00 <sup>(2)</sup>
75	01270	Extra 84-inch Steel Water Line fittings in Place	EA	6	\$4,000.00 <sup>(2)</sup>	\$24,000.00 <sup>(2)</sup>
<b><u>TOTAL EXTRA UNIT PRICES</u></b>						<b>\$ 103,625.00<sup>(2)</sup></b>

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**D. CASH ALLOWANCE TABLE:**

Item No.	Spec Ref.	Cash Allowance Short Title	Cash Allowance in figures (1)
76	01110	City of Galena Park Work Permit	\$35,000.00
77	01110	Harris County Public Infrastructure ROW Permit Fee	\$2,500.00
<b><u>TOTAL CASH ALLOWANCES</u></b>			<b>\$37,500.00</b>

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**E. ALTERNATES TABLE:**

Item No.	Spec Ref.	Alternate Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total Price for Alternate in figures
		N/A				
<b><u>TOTAL ALTERNATES</u></b>						\$ _____

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**F. TOTAL PROPOSAL PRICE:**  
(Add Totals for Items A., B., C., D., and E. above)

\$ \_\_\_\_\_

**2.0 SIGNATURES:** By signing this Document, I agree that I have received and reviewed all Addenda and considered all costs associated with the Addenda in calculating the Total Proposal Price.

Proposer: \_\_\_\_\_

(Print or type full name of your proprietorship, partnership, corporation, or joint venture.)\*

**\*\*By:**

Signature

Date

Name: \_\_\_\_\_

(Print or type name)

Title

Address: \_\_\_\_\_

(Mailing)

\_\_\_\_\_  
(Street, if different)

Telephone and Fax Number: \_\_\_\_\_

(Print or type numbers)

\* If Proposal is a joint venture, add additional Proposal Form signature sheets for each member of the joint venture.

\*\* Proposer certifies that the only person or parties interested in this offer as principals are those named above. Proposer has not directly or indirectly entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding.

**Note:** This document constitutes a government record, as defined by § 37.01 of the Texas Penal Code. Submission of a false government record is punishable as provided in § 37.10 of the Texas Penal Code.

Footnotes for Tables B through E:

- (1) Fixed Unit Price determined prior to Proposal. Cannot be adjusted by the Proposer.
- (2) Minimum Proposal Price determined prior to Proposal. Can be increased by the Proposer by crossing out the Minimum and noting revised price on the line above.
- (3) Maximum Proposal Price determined prior to Proposal. Can be decreased but not increased by Proposer by crossing out the Maximum and noting revised price on the line above. A Proposal that increases the Maximum Proposal Price may be found non-conforming and non-responsive.
- (4) Fixed Range Proposal Price determined prior to Proposal. Unit Price can be adjusted by Proposer to any amount within the range defined by crossing out prices noted and noting revised price on the line above.

END OF DOCUMENT

00410B-CSP-B9

11-26-2014

ADDENDUM NO. 1

1.09 COORDINATION OF WORK

- A. Schedule the Work with any other contractors of any trade or discipline working adjacent to the project site prior to, and during construction. Schedule Work and pipeline connection with contractor performing Work for City of Houston Project WBS No. S-000902-0133-4 (Low Lift Pump Station Direct Connection and Pressure Reducing Station at EWPP), if pipeline connection is required.
- B. If contractor completes Work and is ready to test pipeline before completion of connecting pipeline segment at LLPS No. 2 (WBS No. S-000902-0133-4), then provide dished head plug at end of 84-inch water line. Cost for providing dished head plug is incidental to the 84-inch water line. If contractor for WBS No. S-000902-0133-4 (LLPS Direct Connection and PRS) has completed work and has already installed connecting pipeline segment with dished head plug, then remove dished head plug and make connection to existing 84-inch water line. Payment to be made under appropriate bid item listed in Document 00410-CSP – Proposal Form.
- C. Schedule construction operations with City Project Manager, Contact personnel at EWPP, and private pipeline utilities.
- D. Following is a list of contacts for private pipeline companies who are impacted by the Work:
  - 1. BUCKEYE PIPELINE:  
Mr. Terry Williams  
(870) 615-9078  
[TWilliams@buckeye.com](mailto:TWilliams@buckeye.com)  
  
Mr. Mark Collins  
[MCollins@buckeye.com](mailto:MCollins@buckeye.com)
  - 2. TARGA RESOURCES:  
Mr. David Clark  
(281) 726-9972
- E. Coordination of the Work: Refer to Section 01312 – Coordination and Meetings.

- F. Obtain City of Galena Park Work Permit. Contact Ms. Shelia Hilton, City of Galena Park, 2000 Clinton Drive, Galena Park, Texas 77547-0046, Tel. 713-672-2556 Ext. 301, Email: [sheila@cityofgalenapark-tx.gov](mailto:sheila@cityofgalenapark-tx.gov).
- G. Harris County Flood Control District (HCFCD) Property Management Department shall be notified in writing at least 48 hours prior to construction. Copies of the Preconstruction Notification, the approved plans, and all applicable permits are required to be submitted prior to starting construction activities. Copy of Preconstruction Notification included in Appendix A to this Section 01110.
- H. Schedule testing and inspection of cathodic protection system and protective coatings for pipe, valves, and tanks with the City's independent consultant. Contact David Pedersen at 832-395-5638, [david.pedersen@houston-tx-gov](mailto:david.pedersen@houston-tx-gov).
- I. Tunnel Crossing of Hunting Bayou:
  - 1. **Bathymetric Survey:** Within the first 30 days from Notice to Proceed, Contractor shall perform a bathymetric survey of the Hunting Bayou channel bottom to verify existing channel invert elevations over the tunnel crossing of the bayou. Elevations shall be taken along the tunnel centerline from STA 32+50 to STA 34+00 and shall include water surface elevation. Ground elevations and channel invert elevations shall be determined at intervals of 25 feet along the tunnel centerline and with perpendicular offset elevations of 10 feet and 20 feet (cross-sections) on both sides of the tunnel. Contractor shall submit plotted survey in accordance with Section 01330. Plotted survey shall show ground and channel invert elevations from survey, survey baseline and tunnel centerlines, and top of bank and edge of water of Hunting Bayou. Bathymetric survey shall be performed by a Registered Professional Land Surveyor (RPLS) licensed in the State of Texas. **No separate payment** shall be made for this work.
  - 2. Tunnel crossing shall be installed using a Tunnel boring Machine (TBM) with full shielding and closed face capability. Tunnel crossing is through soil strata with varying characteristics. Comply with requirements of Section 2425(LD) – Tunnel Excavation and Primary Liner for Water Mains for providing submittal data and using tunnel boring machine (TBM).
  - 3. Unless approved otherwise by Project Manager, perform tunneling from southern limit of tunnel and work northward.

4. Provide specific instrumentation monitoring plan, in accordance with Section 02425(LD) – Tunnel Excavation and Primary Liner for Water Mains. Submit monitoring plan and locations of instrumentation to Project Manager for approval.
  5. Dewatering for construction of the tunnel shafts and tunnel crossing may require the use of deep well systems or educator or ejector-type well systems. Refer to geotechnical reports in Section 00320-CSP.
  6. Tunnel crossing shall comply with requirements of USACOE approved permit. Copy of permit included in Appendix B to this Section 01110.
  7. Obtain Harris County Public Infrastructure ROW permit prior to performing any work within HCFCD ROW. Submit HCFCD 48-Hour Preconstruction Notification as indicated in Paragraph 1.09F above.
- J. Connection to 84-inch Header at CWA Building and Modifications to 84-inch Forebay Discharge Pipe:
1. Refer to Appendix C to this Section 01110 for copies of record drawings showing existing 84-inch header, 84-inch discharge pipes into forebay, and sheet piling surrounding the discharge pipes.
  2. Connection to 84-inch header and installation of the 84-inch butterfly valve, isolation flange and new access inlet on the forebay discharge pipe (modifications to 84-inch forebay discharge pipe) will require removal and replacement of a portion of the sloped concrete pavement liner along the bank of the forebay. Sheet piling and fill material may be installed to temporarily isolate an area for dewatering within the designated limits of construction, stabilize excavation, and provide a level area for operation of excavation equipment.
  3. Dewatering will be required for this work. Based on the elevations shown on the attached record drawings, the water level in the forebay will need to be below the top of the 84-inch discharge pipe outlets to remove surcharged conditions of piping. Contractor may install sheet piling, earth fill or other appropriate means for isolating portion of the forebay for dewatering purposes and for excavation. Sheet piling shall not be installed into concrete sloped paving around discharge pipe outlets or the concrete apron at the end of the twin 84-inch discharge pipes from the West Canal. Refer to

record drawings included in Appendix B for locations of these concrete areas. Installed sheet piling within the limits of the forebay (top edge of sloped concrete liner along forebay bank) shall not be removed. Cut off to match existing grades of the forebay. Cut off installed sheet piling within sloped concrete liner along forebay bank to depths to permit replacement of sloped concrete in accordance with details.

4. Based on the attached record drawings, the existing sheet piling consists of PZ22 x 40 ft. LG sheet piling with embedment of approximately 24 feet. The condition of the sheet piling is unknown. Notes 4 and 5 on the attached record drawing HP-520-37-01 indicate existing sheet piling was not originally designed for dewatering enclosed area. Contractor may use portions of the existing sheet piling for dewatering purposes provided that adequate bracing and other precautions are provided to ensure the integrity of the existing sheet piling. Contractor shall be responsible for damages to existing sheet piling. Damaged sheet piling shall be replaced in kind with new sheet piling installed along outer perimeter of existing sheet piling at no additional cost to City.
5. Install temporary turbidity curtain across openings of existing twin 84-inch discharge pipes from the West Canal prior to beginning excavation or dewatering activities for this work. Secure turbidity curtain to bottom of forebay with adequate weights to provide full protection across openings of pipes.
6. Dewatering discharges may be released into the forebay or the West Canal. Discharges into the West Canal shall be passed through a filter or suitable stormwater quality device to retain sediment and reduce turbidity prior to discharging into canal.
7. Sediment removed from the forebay as part of dewatering or excavation activities may be disposed on site at the EWPP's landfill area. Exact disposal area shall be identified by EWPP contact personnel. Contractor responsible for handling and transporting sediment to disposal area.
8. Contractor shall submit a detailed plan for making the connection to the 84-inch header. The plan shall address the following items:
  - a. Site setup, to include SWPP provisions and protection of adjacent utilities and structures.

- b. Dewatering plan with discharge points identified and means for filtering discharges, and limits of area to be dewatered. Identify means for isolating dewatering area (use of sheet piling, earth fill, cofferdams).
  - c. Identify locations for installing proposed sheet piling, earth fill, or cofferdams.
  - d. Shoring and bracing for excavation.
  - e. Identify portions of existing sheet piling to be used, if any, for dewatering and excavation purposes and associated bracing and other precautionary means for maintaining integrity of sheet piling.
  - f. Schedule for specific work activities.
- 9. Include the following costs in the lump sum bid item price for Connection to 84-inch Header and Modifications to 84-inch Forebay Discharge Pipe. These costs apply to the work between STA 53+60 and STA 54+75, including the work on the 84-inch discharge pipe into the forebay. Butterfly valves, access inlets, and isolation flanges to be paid separately by unit prices for applicable bid items.
  - a. Sheet piling, earth fill, and cofferdams.
  - b. Dewatering.
  - c. Excavation and shoring.
  - d. Backfill and compaction.
  - e. Site restoration, including cutting sheet piling, removal of earth fill or cofferdams, removal of turbidity curtain, replacement of sloped concrete liner in forebay, removal of dewatering equipment, and surface grading.
- 10. Payment for Connection to 84-inch Header and Modifications to 84-inch Forebay Discharge Pipe shall be in accordance with the following major milestones and corresponding percentages:
  - a. 70%: Completion of connection to 84-inch header and modifications to 84-inch discharge pipe (installation of isolation flange, butterfly valves, access inlets, and connections to existing 84-inch piping, including backfilling and compacting excavation).

- b. 30%: Site restoration, including replacement of sloped concrete liner, removal of excavation shoring, cutting off installed sheet piling, removal of earth fill and cofferdams, removal of turbidity curtain, removal of dewatering equipment, and site grading.
- c. Contractor may propose additional intermediate milestones and corresponding percentages for payment in the Schedule of Values, subject to approval by Project Manager.

**K. Removal and Replacement of Fencing:**

**1. Chain Link Fencing:**

- a. Contractor shall remove and replace chain link fencing as indicated on Drawings or as necessary to construct the Work. Fence gates shall be removed, stored and re-installed. Replace chain link fencing to limits removed and match fence materials for fabric and posts and fence height, and connect to existing fencing.
- b. Install replacement chain link fencing in accordance with the details shown on the Drawings.

**2. Wire Wall Security Fencing:**

- a. Remove, store and protect wire wall fence panels as indicated on the Drawings. See Drawing Sheet 13.
- b. Re-install wire wall fence panels with matching fence posts and panel connections in accordance with the details shown on the Drawings.

- 3. Costs for removal and replacement of chain link fencing, and removal, storage and re-installation of wire wall security fencing shall be included and paid for by respective bid items for chain link fencing and wire wall security fencing.

**L. Removal of Abandoned Overhead Security Cables and Poles:**

- 1. Remove abandoned overhead security cables and wood poles as indicated on the Drawings. Refer to Drawing Sheet 13.
- 2. Limits of pole and overhead cable removal are from the pole at STA 22+31, 3' RT to the pole at STA 26+95, 95' LT.

3. Confirm with EWPP personnel if wood poles are to be salvaged and stored on site. If EWPP personnel do not want to salvage poles, then dispose of poles off site.
4. Costs for removing and disposing of poles and abandoned overhead security cables shall be included and paid for through the designated bid item. Costs shall also include transporting poles to a location on site as designated by EWPP personnel if poles are to be salvaged.
5. Schedule pole and cable removal with EWPP contact personnel prior to performing work. Re-confirm that overhead cables are abandoned and not live prior to performing removal work.

**M. Removal and Replacement of Pull Boxes, Conduits, Conductors and Cables between STA 44+97 and STA 45+86:**

1. Refer to Appendix D to this Section 01110 for copies of record drawings showing the pull boxes, conduits, conductors and cables at this location.
2. Roadway gate remains open at all times, and gate card reader and gate operator are not in service; however, security camera on pole is in service. Schedule and coordinate temporary shutdown of security camera with EWPP contact personnel. Temporary shutdown of security camera shall not exceed 48 hours unless otherwise approved by Project Manager.
3. Existing Pull Boxes 12A and 12B are square reinforced concrete vaults approximately 4 ft. W x 4 ft. L x 4 ft. D with access manhole frame and cover. Provide replacement pull boxes with matching dimensions and matching access manhole frame and cover. Provide shop drawing submittal for proposed pull boxes and access cover for approval prior to installation.
4. Contractor may salvage existing pull boxes with access manhole frames and covers and re-install at designated locations shown on the Drawings. Re-installation of existing pull boxes is subject to approval by City's Project Manager based on inspection of pull boxes after removal and prior to installation.
5. Costs for removal and replacement of pull boxes, conduits, cables and conductors, including construction of 6-inch steel casing pipe for roadway crossing, shall be included and paid for by the designated bid item.

**N. Removal and Replacement of Pull Boxes, Conduits, Conductors and Cables between STA 52+42 and STA 53+48:**

1. Conduits, cables and conductors are for service to sluice gates on 84-inch inlet pipes from the West Canal.
2. Record drawings are not available to identify sizes of conduits, conductors and cables. Contractor to field verify these facilities prior to proceeding with removal and replacement. Coordinate with Project Manager and EWPP contract personnel for scheduling temporary shutdown of these facilities to accommodate removal and replacement as indicated on the Drawings.
3. Costs for removal and replacement of pull box, conduits, cables and conductors shall be included and paid for by the designated bid item.

**O. Loop Detector Removal and Replacement between STA 45+47 and 45+67:**

1. Loop detectors are for operation of roadway access gate. Access gate is not in service. Confirm operations of loop detectors with Project Manager and EWPP contact personnel.
2. Record drawings are not available to identify sizes of conductors and cables for loop detectors. Contractor to field verify these facilities prior to proceeding with removal and replacement.
3. Follow guidelines in Specification Section 16727 for installation of loop detectors.
4. Payment for removal and replacement of loop detector wires shall be at the unit price bid for "Remove and Replace Concrete Loop Detector/Sensor Box".

**P. Remove and Dispose 18 inch Sewer Line.**

1. Work includes removal and disposal of 18-inch gravity sewer that discharges into the forebay at Plant 3. The 18-inch sewer line has not been confirmed to be in operation or in place. The line is used to convey backwash waste (not sanitary waste) to forebay.
2. Work shall include diversion pumping in accordance with Document 01506 – Diversion Pumping. Include cost of diversion pumping in Proposal Item No. 57 – Remove and Dispose 18 inch Sewer Line.

Section 01506

DIVERSION PUMPING

PART 1 GENERAL

1.01 DEFINITIONS

- A. Diversion-pumping: Installation and operation of bulkheads, plugs, hoses, piping, and pumps required to maintain sewer flow and prevent backups and overflows.

1.02 SYSTEM DESCRIPTION

- A. Provides continuous sewer service to users of sewer systems while maintenance or construction operations are in progress, by diverting flow around construction locations. Maintain sewer flow to prevent backup or overflow onto streets, yards and unpaved areas or into buildings, adjacent ditches, storm sewers, and waterways. Do not divert sewage outside of sanitary sewer system.
- B. When pumps are operating, have an experienced operator on site to monitor operation, adjust pumps, make minor repairs to system, and report problems.

1.03 SUBMITTALS

- A. Conform to requirements of Section 01330 - Submittals Procedures.
- B. For systems that bypass sanitary sewer line segments of 42-inch diameter or larger, submit a Diversion Pumping Plan prior to installation. Show location, number and size of pumps, number, location, size and type of hoses or rigid piping, and location of downstream discharge; and special features where pipes or hoses cross roadways, temporary trenches, support bridges.

1.04 SCHEDULING

- A. When the City operates or maintains diversion pumping in construction areas, coordinate construction activities with Project Manager.
- B. Cease operation of diversion pumping when approved by Project Manager.

## **DIVERSION PUMPING**

## **CITY OF HOUSTON STANDARD GENERAL REQUIREMENT**

### **PART 2 P R O D U C T S**

#### **2.01 MATERIALS**

- A. Design piping, joints and accessories to withstand at least twice maximum system pressure or 50 psi, whichever is greater.
- B. Use self-priming type or submersible electric pumps, with a working pressure gauge on the discharge. Pumps shall meet requirements of City of Houston Noise and Sound Level Regulations.

### **PART 3 E X E C U T I O N**

#### **3.01 FIELD QUALITY CONTROL**

- A. During diversion pumping, do not allow sewage to leak, dump, or spill into or onto areas outside of existing sanitary sewer systems.
- B. In the event of an accidental spill or overflow, immediately stop discharge and take action to clean up and disinfect spill. Promptly notify Project Manager so required reporting can be made to the Texas Commission on Environmental Quality (TCEQ) and the Environmental Protection Agency (EPA).

#### **3.02 CLEANING**

- A. When diversion-pumping operations are complete, drain sewage within piping into sanitary sewers prior to disassembly.

**END OF SECTION**